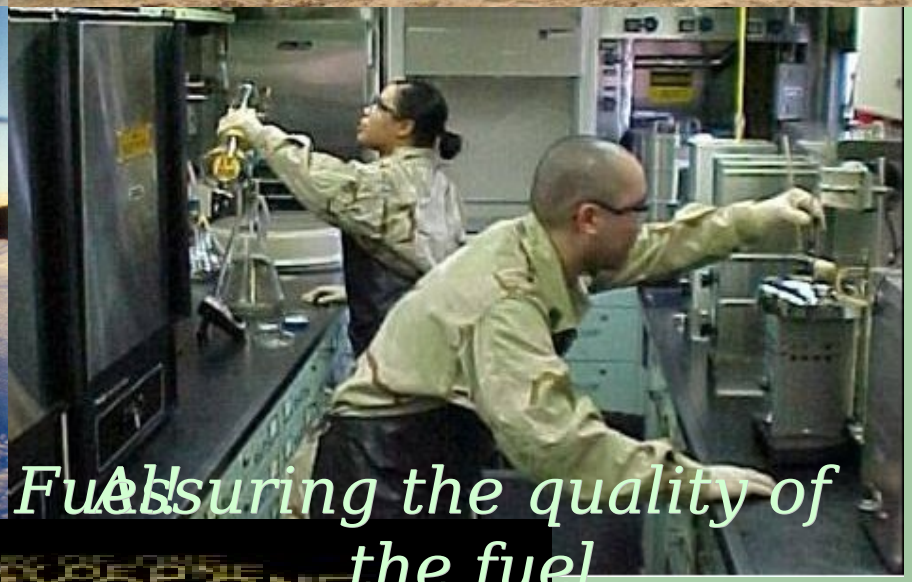
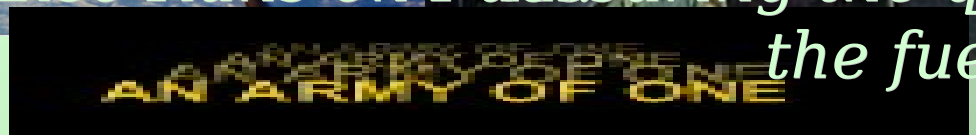
PETROLEUM AND WATER DEPARTMENT

The Ultimate Weapon runs on Water….

Everything Else Runs on Fuel



All ensuring the quality of the fuel



PETROLEUM AND WATER DEPARTMENT BRIEF

AGENDA

- Mission
- Organization & Functions
- Course & Student Load
- Mobilization Training
- Facilities Overview
- Training Divisions Overview
- QMC&S-PWD Actions/Initiatives
- Questions

PETROLEUM AND WATER DEPARTMENT

MISSION

"In no other profession are the penalties for employing untrained personnel so appalling or so irrevocable as in the military."

General Douglas MacArthur, 1933

- Provide quality training to military personnel from various branches of the U.S. Armed Forces, allied nations, and DoD civilians on petroleum and water logistics systems, equipment and doctrine
- Assist with doctrine development and force readiness items which assist in fulfilling fuel and water requirements for U.S. Forces globally

PETROLEUM AND WATER DEPARTMENT

Organization

DIRECTOR
PWD
Mr. Jones

DEPUTY DIRECTOR
CPT Dunford

SGM
PWD
SGM Griffith

OPERATIONS
PWD
SFC Bowen

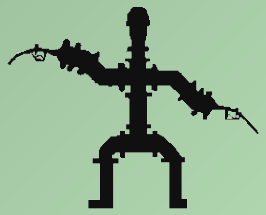
ADVANCED PETROLEUM AND WATER DIVISION (APWD)
Ms. Williams

BASIC PETROLEUM LOGISTICS DIVISION
CPT Ware (BPLD)

LABORATORY TRAINING DIVISION
Mr. Paulk (LTD)

WATER TRAINING DIVISION
CPT Anderson
(WTD)

MARINE PETROLEUM TRAINING DIVISION (MPTD)
Lewis



PETROLEUM AND WATER DEPARTMENT

What PWD Does

- **Train Skill Level 10 Army & Marines Corps troops**
- **Proponent for ANCOC & BNCOC functional courses**
- **Teach Marines Corps Advanced Petroleum Staff NCO Course**
- **Petroleum Officer Course for all Services, DoD Civilians & Internat'l**
- **Train POL & WTR functional area of all officer courses**
- **Operational Readiness Assessment for Naval Reserve Units**
- **Distance Learning product review and validation**
- **Participate in Joint & Army conferences/studies related to our field**
- **Coordinate with DCD-QM for development of doctrine, force structure and equipment**

PETROLEUM AND WATER DEPARTMENT

TRAINING MISSION

	RESIDENT COURSE	LENGTH
92F	Petroleum Officer Course	8 Weeks
92F	Petroleum Supply Specialist	10 Weeks, 1 Day
1391	Bulk Fuel Specialist (ITRO first 3 WKs)	6 Weeks,3 Days
92L	Petroleum Laboratory Specialist	9 Weeks, 4 Days
92W	Water Treatment Specialist	10 Weeks, 4 Days

Supported Courses: CLC3, OBC, PCC, RCOAC, SSMO,

PETROLEUM AND WATER DEPARTMENT

Student Load

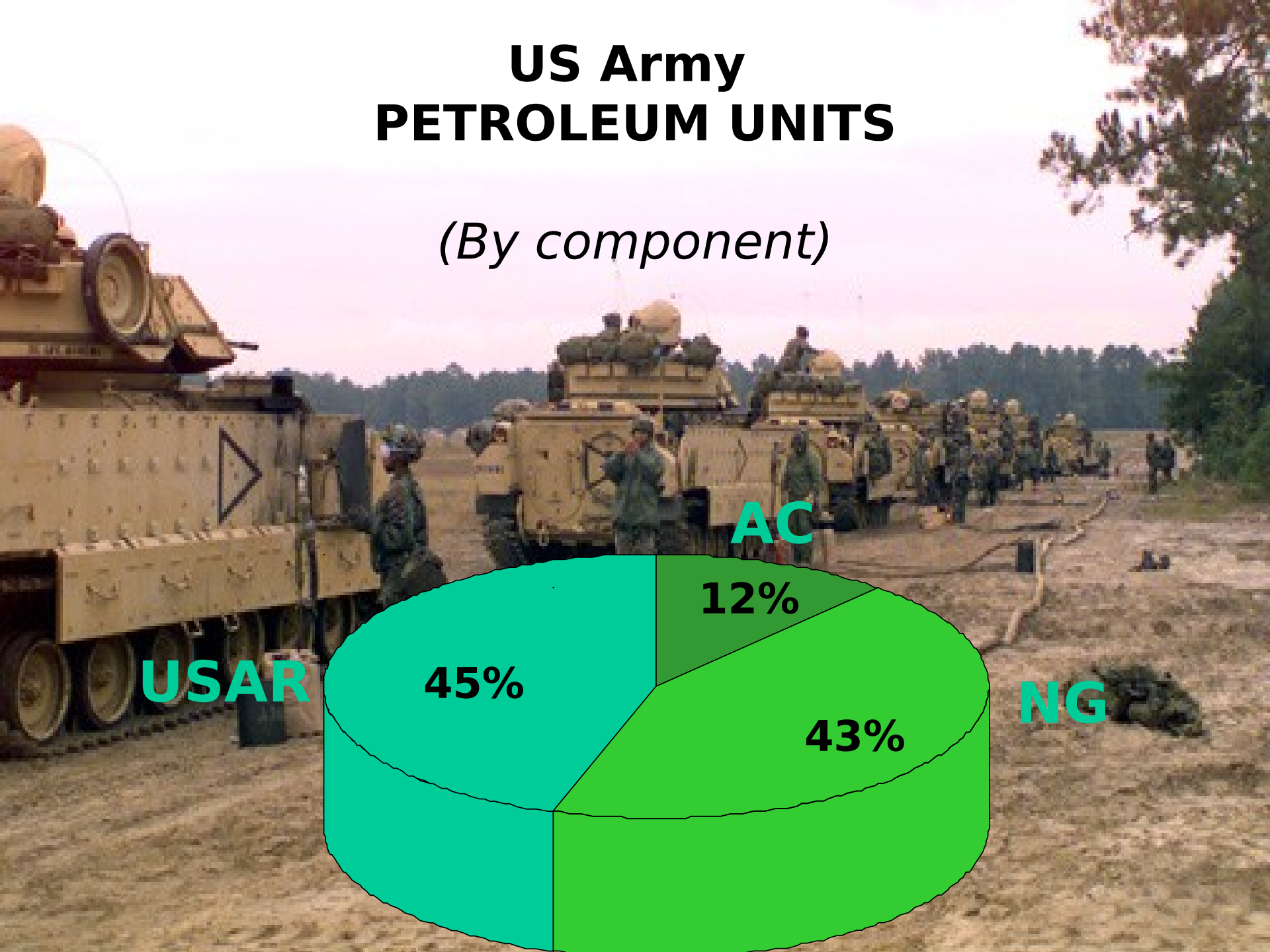
AITs	FY 01	FY 02	FY03	FY 04
	PROJ/ACT	PROJ/ACT	PROJ/ACT	PROJ/ACT
92F10	3006/2,630	3696/3705	3705/2748	2701/
Marines	483/395	499/407	481/431	539/
92L10	116/121	151/123	140/68	151/
92W10	618/664	665/747	681/410	668/

OFFICER

92F	146/134	99/280	95/75	

US Army
PETROLEUM UNITS

(By component)

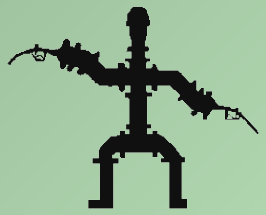


PETROLEUM AND WATER DEPARTMENT

ARMY RESERVE / NATIONAL GUARD TRAINING

SCHEDULED ANNUAL TRAINING FY 03		
PROJECTED TRAINED		
92F	1,400	900 est.
92L	52	30 est.
92W	502	350 est.
TOTAL	1,954	1,280 est.

SCHEDULED ANNUAL TRAINING FY 04 (as of Sept 03)	
PROJECTED	
92F	590
92L	40
92W	176
TOTAL:	806



PETROLEUM AND WATER DEPARTMENT

MOBILITY TRAINING FY 03

- **Units:** 1 Active Duty, 20 US AR/NG, and 2 Navy
- **MOB** 53 each 92Ws 35 each 92F 47 each 92Ls
  *Non-CMF 92
  *(7 each Officers / 2 each CSM/ 186 each soldiers)
- **IRR** 1 each 92Ws 6 each 92F
- **Reclass** 44 each 92F
- **OPERATIONAL READINESS ASSESSMENT:** 48 Navy Reserve
- **TOTAL** 54 each 92W 85 each 92F 47 each 92L
  194 other 48 Navy

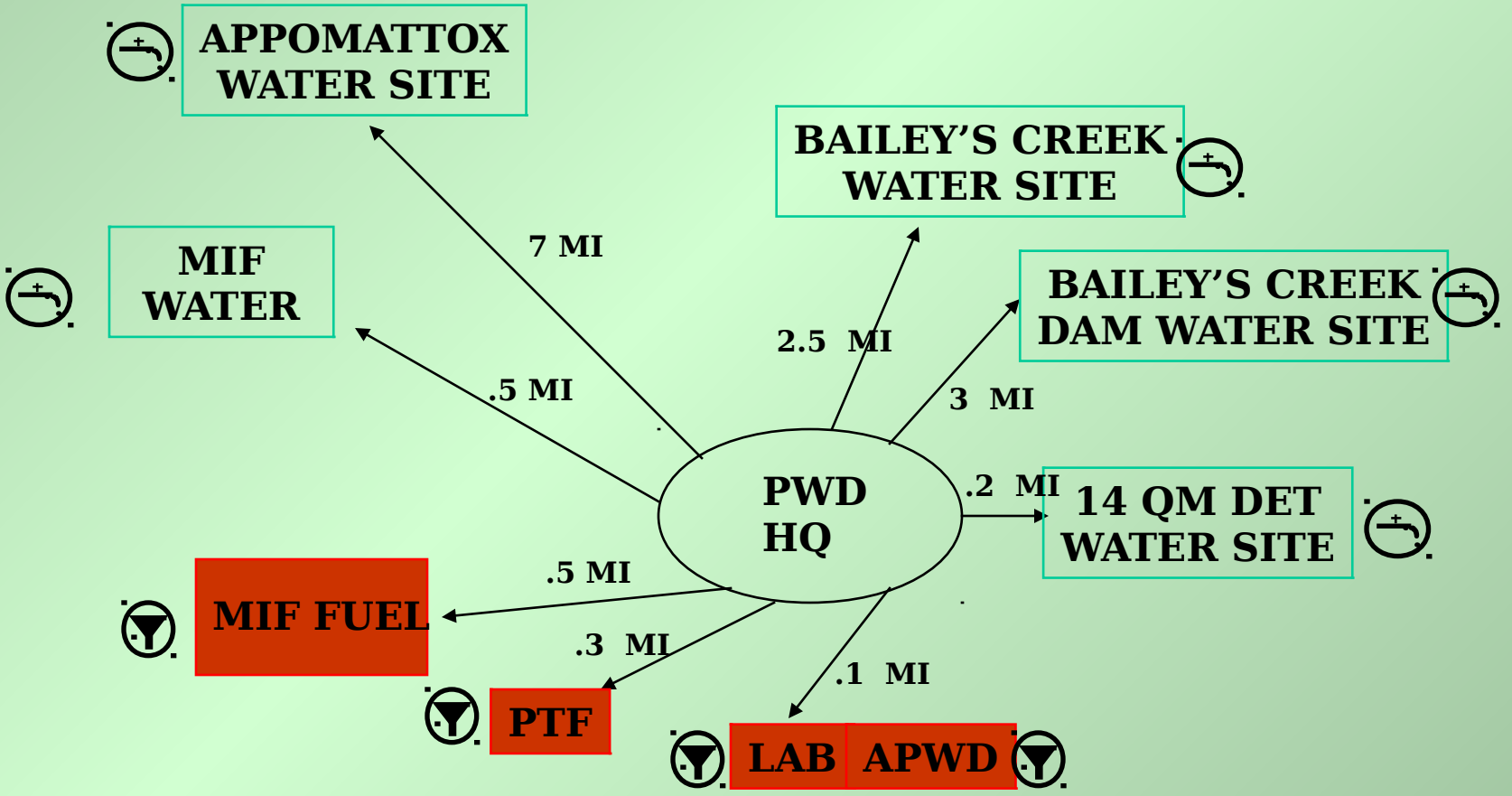
PETROLEUM AND WATER DEPARTMENT

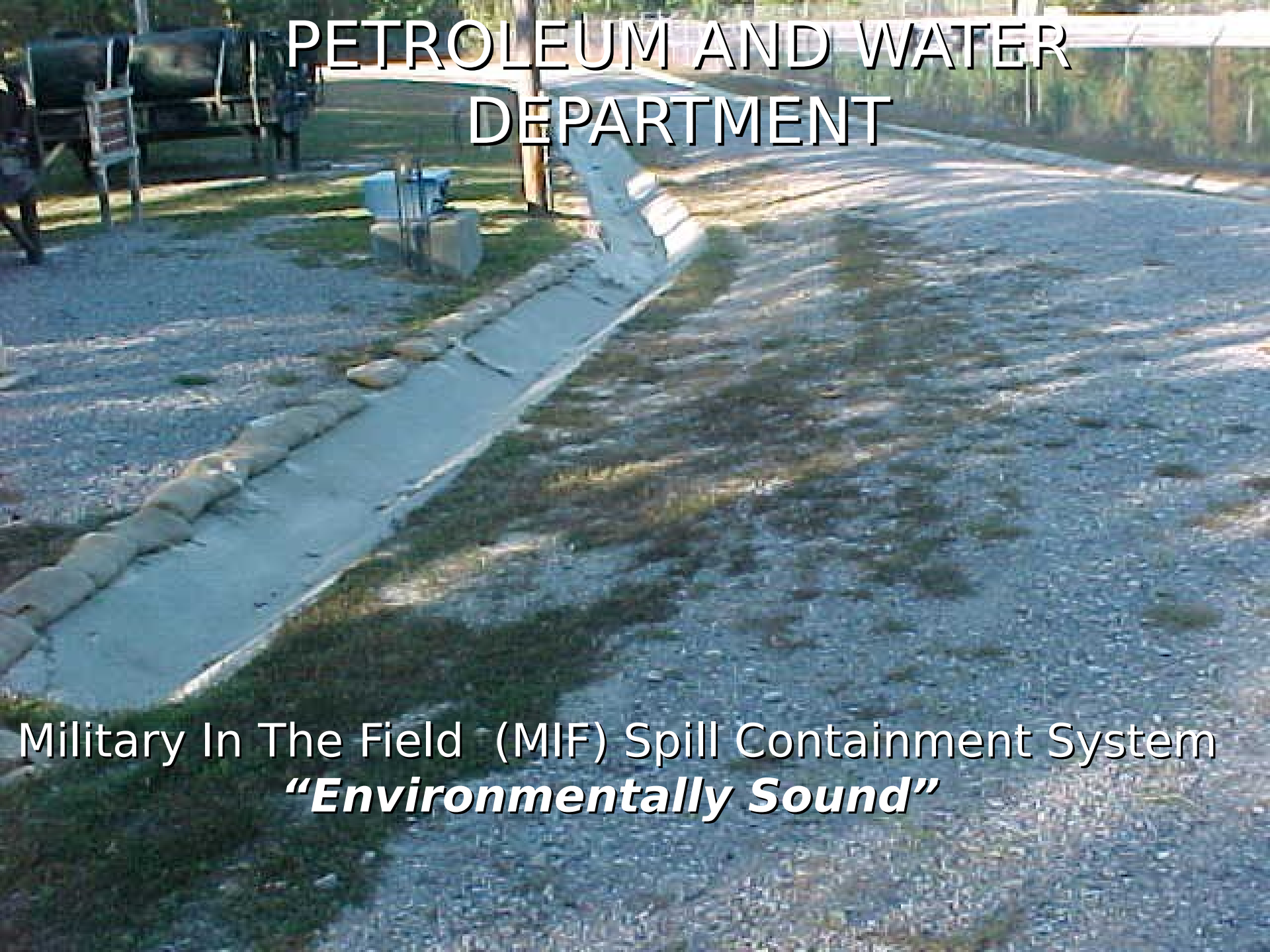
Average Training Day Course Last

Course	# Classes	# Students
92L10	2	32
92F10	26	901
Marines	2	32
92W	6	120
POC	1	17
OBC	1	62

PETROLEUM AND WATER DEPARTMENT

Training Facilities

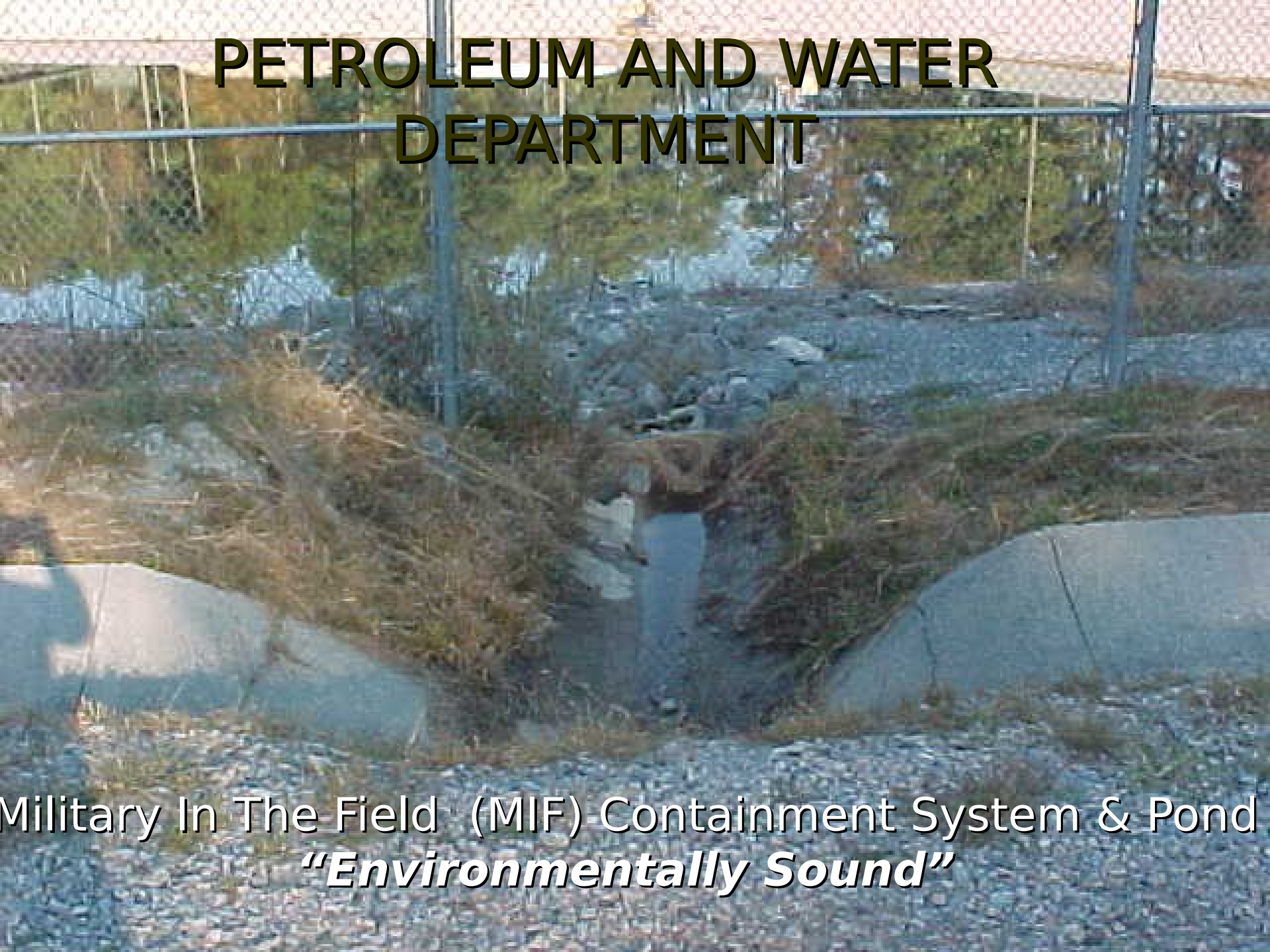



PETROLEUM AND WATER DEPARTMENT
Military In The Field (MIF) Spill Containment System
“Environmentally Sound”

PETROLEUM AND WATER DEPARTMENT

Military In The Field (MIF) Containment Pond
“Environmentally Sound”

PETROLEUM AND WATER DEPARTMENT



Military In The Field (MIF) Containment System & Pond

"Environmentally Sound"

PETROLEUM AND WATER DEPARTMENT

Military In The Field (MIF) FSSP Containment Berms

"Environmentally Sound"

PETROLEUM AND WATER DEPARTMENT

Drop Zone

Aircraft Refueling/Sling Load Operations

PETROLEUM AND WATER DEPARTMENT

Drop Zone

Aircraft Refueling/Defueling/Sling Load Operations

PETROLEUM AND WATER DEPARTMENT

PETROLEUM AND WATER DEPARTMENT

Petroleum Training Facility (PTF)
Spill Containment Drains/Pond
"Environmentally Sound"

PETROLEUM AND WATER DEPARTMENT

Petroleum Training Facility (PTF)
Spill Containment Berm/Tank Leak Detection
"Environmentally Sound"

PETROLEUM AND WATER DEPARTMENT

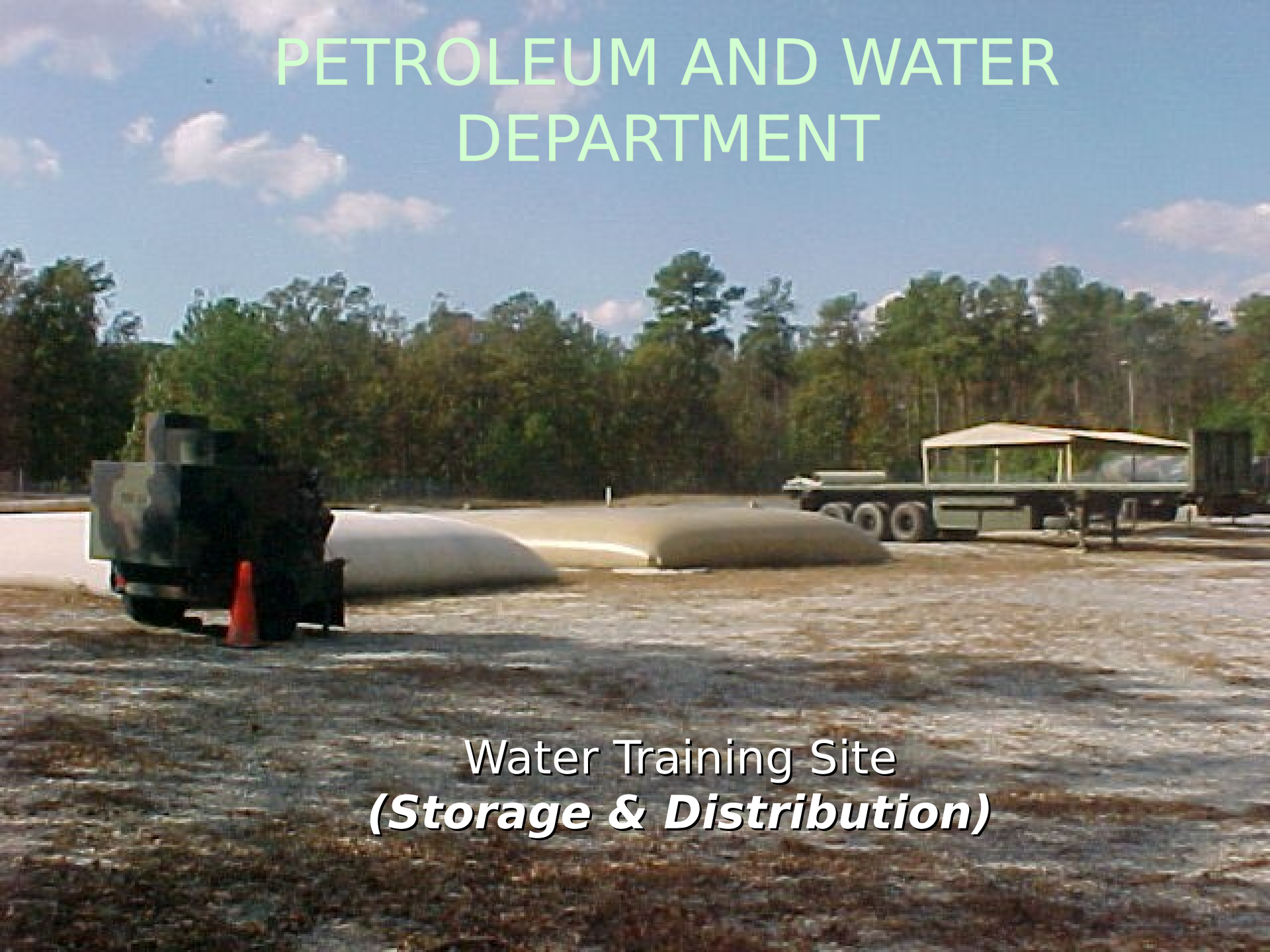
Petroleum Training Facility (PTF)
Spill Containment System
"Environmentally Sound"

PETROLEUM AND WATER DEPARTMENT
Petroleum Training Facility (PTF)
Enhanced Containment System
“Environmentally Sound”

PETROLEUM AND
WATER DEPARTMENT
Water Training Site
“Appomattox River”
(One of Kind Fresh Water Training Facility)

PETROLEUM AND WATER DEPARTMENT

PETROLEUM AND WATER DEPARTMENT



Water Training Site

(Storage & Distribution)

ADVANCED PETROLEUM & WATER DIVISION

Advanced Petroleum And Water Division (APWD)

- **Trains Department of Defense (DoD) and international officers, warrant officers and civilians in petroleum and water operations and concepts.**
- **Provides technical support in all areas of petroleum and water logistics to soldiers in the field and to the developers of concepts and doctrine.**
- **Continues to support its graduates as petroleum and water logisticians.**

ADVANCED PETROLEUM & WATER DIVISION

Training Courses Supported

- **Petroleum Officer Course (POC)**
  (Army, Air Force, Navy, Marine Corps & DoD Civilians)
- **Pre-Command Course (PCC)**
- **Officer Basic Course (OBC)**
- **Combined Logistics Captains' Career Course (CLC3)**
- **Reserve Component Officer Advanced Course (RCOAC)**
- **Warrant Officer Basic Course (WOBC)**
- **Warrant Officer Advanced Course (WOAC)**
- **Supply and Service Management Officer Course (SSMO)**
- **Operational Readiness Assessment (ORA)** ***Navy only***

PETROLEUM OFFICERS COURSE

- The Petroleum Officer Course (POC) is the senior petroleum and water management course offered in the Army.
- It provides officers and DOD civilians with joint service, theater-level management skills.
- Course duration is 8 weeks.

LABORATORY TRAINING DIVISION

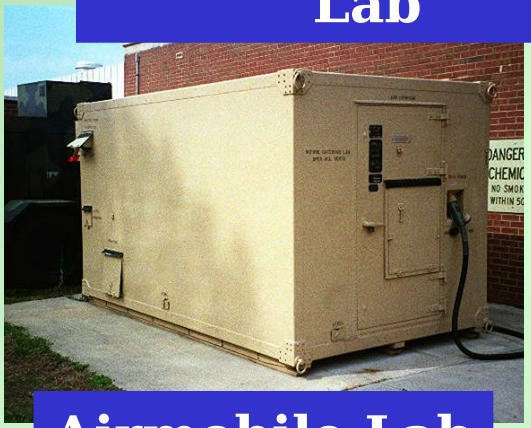
LABORATORY TRAINING DIVISION

- **Train Army, Navy and Marine personnel and Department of Defense (DoD) civilians to meet worldwide petroleum requirements of quality surveillance**
- **Course consists of ten weeks, two days of extensive technical and hands-on training on laboratory testing procedures in accordance with ASTM test methods and their application to Army and Marines testing equipment and mobile laboratories**

Petroleum Quality Surveillance

Today

Mobile Petroleum Lab



Airmobile Lab

2010

Petroleum Quality Analysis

BASIC PETROLEUM LOGISTICS DIVISION

BASIC PETROLEUM LOGISTICS DIVISION

- **Train Army and Marines personnel to meet worldwide petroleum logistics supply req’ts**
- **Course consists of ten weeks and one day of extensive hands-on training on Army and Marines petroleum-related equipment Curriculum/training includes: sampling and gaging, military pipeline operations, fuel accountability, tank vehicle operations, and sling load operations**
- **Major field training sites include: Military-in- the-Field (MIF) and Petroleum Training Facility (PTF)**

Providing Bulk Petroleum Distribution

Today

5,000 Gallon Tanker

2010

LHS HEMTT Tanker

Load Handling System Tankracks

Providing Mobile, Modular Bulk Petroleum Storage

Today

Fuel System Supply Point

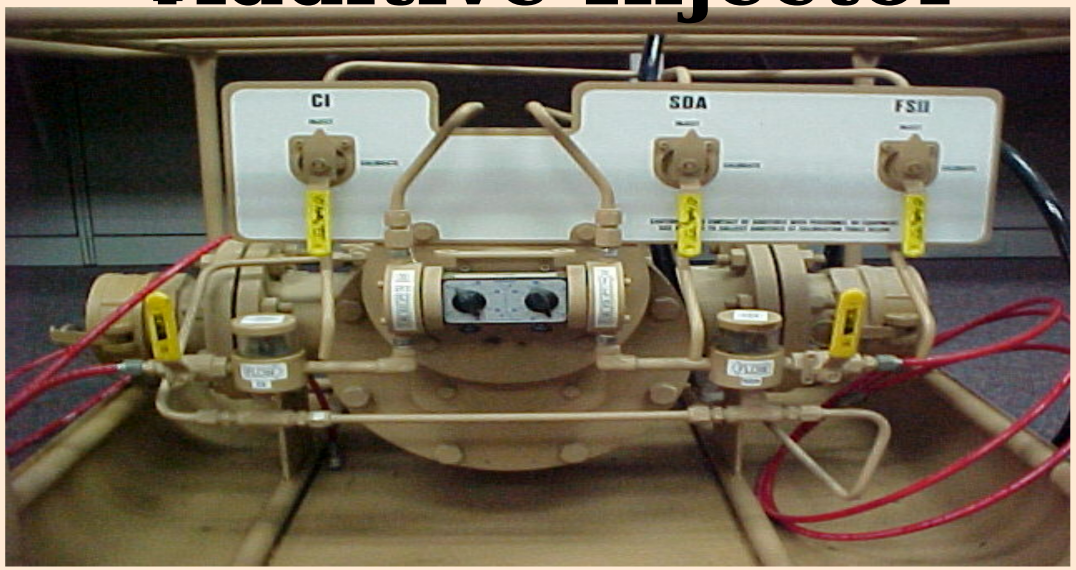
2010

Modular Mobile Fuel

PETROLEUM AND WATER DEPARTMENT

Hammond Injector Model Fuel Additive Injector

Division/Corps Bulk & Retail Fuel Distribution



- Fuel flow range is: 40-60 GPM.
- Injector ratio is: 75 PPM, FSII-2100 PPM.
- Duty cycle is continuous and operation. environment is out of doors.
- Operating temperature for the Fuel Additive Injector is -20 F to + 115 F.

Providing Bulk Petroleum Distribution

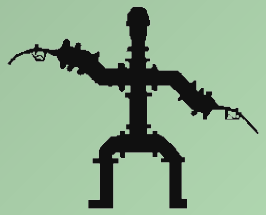
CURRENT

Inland Petroleum Distribution System

FUTURE

Rapidly Installed Fluid Transfer

MARINES CORPS PETROLEUM TRAINING DIVISION



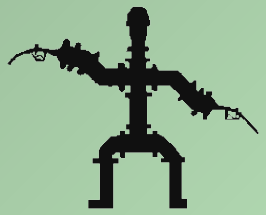
MARINES CORPS PETROLEUM TRAINING DIVISION

MISSION

To provide formal bulk fuel training for entry and career level students, both active and reserve.

Provides a link between HQ, USMC, other services, and DOD agencies for petroleum matters.

Primary responsibilities include: Bulk Petroleum Publications, Bulk Liquids Doctrine and Bulk Liquids Policy.



MARINES CORPS PETROLEUM TRAINING DIVISION

Courses Offered

- Bulk Fuel Specialist Course **(Active Duty)** (6 weeks)
- Petroleum Laboratory Specialist Course (9 weeks 4 days)
- Advanced Bulk Fuel Course **(Active Duty)** (3 weeks)
- Petroleum Officers Course (8 weeks)
- Bulk Fuel Specialist Course (Reserve) (2 weeks)
- Advanced Bulk Fuel Course **(**Reserve**)** (2 weeks)

MARINES CORPS PETROLEUM TRAINING DIVISION

Simulated Fuel Systems

- **Amphibious Assault Fuel System (AAFS)**
- **Tactical Air Field Fuel Dispensing System (TAFDS)**
- **Helicopter Expedient Refueling System(HERS)**
- **Expedient Refueling System (ERS)**
- **SixCon Fuel System**

PETROLEUM AND WATER DEPARTMENT

- **QMC&S-PWD Actions/Initiatives**
  - Lesson Plan Revision - Transformation
  - Junior Officer Petroleum Course
  - 92W ROWPU Maintenance Into Lesson Plans
  - Fuel Automated System (FAS)
  - Petroleum Warrant Officer
  - Assignment Oriented Training (AOT)
  - Facility Upgrade (PTF and MIF)

For more information on

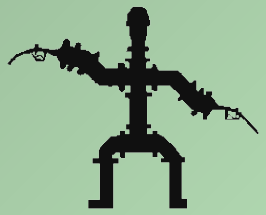
Army Petroleum

The Ultimate Weapon runs on Water….

Everything Else Runs on Fuel!

Go to the US Army Quartermaster School Petroleum & Water Dept…..

http://www.Quartermaster.army.mil/PWD/pwd



QUESTIONS?